

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name: Chroma/Press Wash 210

SDS Date: 31 August 2018

IKONICS Corporation
4832 Grand Ave.
Duluth, MN 55807
United States
www.ikonics.com
sds@ikonics.com

General Information: (218) 628-2217

(800) 328-4261 – Toll Free

CHEMTREC: 800-424-9300 – Within USA and Canada

+1 703-527-3887 – Outside USA and Canada (collect calls accepted)

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

GHS Classification:

Flammable Liquids, Category 3
Skin Irritation, Category 2
Eye irritation, Category 2B
Skin Sensitizer, Category 1B
Specific target organ toxicity – single exposure, Category 3

GHS Labeling



Symbol:

Signal Word: Warning

Hazard Statements:

Flammable liquid and vapor
Causes skin and eye irritation
May cause an allergic skin reaction
May cause drowsiness or dizziness.

Precautionary Statements:

Prevention:

Keep away from flames and hot surfaces. No smoking.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wash hands thoroughly after handling.
Avoid breathing mist/vapor/spray.
Contaminated work clothing must not be taken out of the workplace.
Use only outdoors or in a well ventilated area.

Response:

In case of fire use alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), and water spray.

IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash before reuse. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Storage:

Store in a well-ventilated place. Keep cool.

Store locked up.

Disposal:

Dispose contents/container to an approved waste disposal plant.

Potential Health Effects: See Section 11 for more information

This product does not contain carcinogens or potential carcinogens as listed by IARC, NTP, or ACGIH.

This material contains components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

No.	Component CAS REG. NO.	Amount %	OSHA		ACGIH	
			TWA	STEL	TWA	STEL
1	1-Methoxy-2-Propanol 107-98-2	1-100	100 ppm	150 ppm	100 ppm	150 ppm
2	2-Propanol, 1-Propoxy- 1569-01-3	1-100	Not avail	Not avail	Not avail	Not avail
3	Ethyl 3-Ethoxypropionate 763-69-9	1-100	Not avail	Not avail	50 ppm	100 ppm
4	Light Aromatic Solvent Naphtha 64742-95-6	1-100	Not avail	Not avail	Not avail	Not avail
5	1,2,4-Trimethylbenzene 95-63-6	1-3.5	Not avail	Not avail	25 ppm	Not avail
6	1-Methyl-3-ethylbenzene 620-14-4	1-2	Not avail	Not avail	Not avail	Not avail
7	Limonene, D- 5989-27-5	1-100	Not avail	Not avail	30 ppm	Not avail

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain medical attention if breathing difficulty persists.

Ingestion: Do not induce vomiting. Obtain medical attention.

Skin: Remove contaminated clothing as needed. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Seek medical attention if ill effect or irritation develops.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

Section 5: FIRE FIGHTING MEASURES

Flash Point (Limonene, D) 48.88°C (119.98°F) Pinsky Martens closed cup

LEL (Limonene, D): 0.7% (V)

UEL (Limonene, D): 6.1% (V)

Auto Ignition Temperature: 458°F / 237°C

NFPA Classification: Combustible Liquid Class II

Suitable Extinguishing Media:

Alcohol-resistant foam, dry chemical, carbon dioxide (CO₂), Water spray

Products of Combustion:

Upon decomposition this product may emit carbon dioxide, carbon monoxide, and/or low molecular weight hydrocarbons.

Fire Fighting Equipment/Instructions:

Above flash point, vapor-air mixtures are explosive within flammable limits noted above.

HAZARD	HMIS	NFPA
Toxicity	1	1
Fire	2	2
Reactivity	0	0

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Protection: Use personal protective equipment. Ensure adequate ventilation. Eliminate all sources of ignition.

Environmental Precautions: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-up: Use clean non-sparking tools to collect absorbed material. Dike large spills and place materials in salvage containers.

Section 7: HANDLING AND STORAGE

Handling:

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating conditions.

Storage:

Store in a cool, dry, ventilated area away from sources of heat, moisture, and incompatible substances.

Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protective Equipment (PPE)

Respiratory Protection: A respiratory protection program that meets OSHA's 29CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use.

Eye/Face Protection: Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid or vapor.

Hand Protection: Wear chemical resistant gloves such as Butyl rubber or Viton.

Body: When skin contact is possible, protective clothing including apron, sleeves, boots, head and face protection should be worn.

Other Protective Equipment:

Facilities storing or utilizing this material should be equipped with eyewash and/or shower facilities.

See section 3 for exposure limits.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance, State: Clear Liquid

Color: Colorless

Odor: Citrus-like odor

pH: Not Available

Vapor Density: Not available

Boiling Point: (Limonene, D) 347.9 - 349°C @ 101.72kPa

Vapor Pressure: (Limonene, D) 0.192 kPa @ 77°F/25°C

Melting Point/freezing point: (Limonene, D) -101.83°F / -74.35°C

Flash Point (See Section 5)

Flammability Properties (See section 5)

Solubility (in water) Insoluble

Density (Limonene, D): (+/- 0.01) 0.8405 g/cm³ @ 77.00°F / 25.00°C

Evaporation Rate: (Limonene, D) (>) 1 Ethyl Ether

Octanol/Water partition coefficient (Kow) Not Available

Auto-ignition temperature (See Section 5)

Decomposition temperature: Not Available

VOC %: 100%

HAP%: <1%

Section 10: STABILITY AND REACTIVITY

Stability: This material is considered stable at ambient temperatures 70°C (21°C).

Condition to Avoid: Strong oxidizing agents, heat, flames, and sparks.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Hazardous Reactions: This product will not undergo polymerization.

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Component Analysis LD50

Limonene-D (5989-27-5)

Oral LD50 Rat 4400 mg/kg;

Dermal LD50 Rabbit >2000 mg/kg

2-Propanol, 1-propoxy (1569-01-3)

Oral LD50 Rat 2504 mg/kg

Dermal LD50 Rabbit 3550 mg/kg

Ethyl 3-Ethoxypropionate (763-69-9)

Oral LD50 Rat 3200 mg/kg

Dermal LD50 Rabbit 10 mL/kg
Oral LD-50: Rat 4,309 mg/kg
Dermal LD-50 Rabbit 4,080 mg/kg
Dermal LD-50 Guinea Pig >19,020 mg/kg
Skin irritation Rabbit 4 h slight
Eye irritation rabbit slight
Skin sensitization Guinea Pig non sensitizing

Aromatic Naphtha (64742-95-6)
Inhalation LC50 Rat >5.2 mg/L 4 h;
Inhalation LC50 Rat 3400 ppm 4 h;
Oral LD50 Rat 8400 mg/kg;
Dermal LD50 Rabbit >2000 mg/kg

1-methoxy-2-propanol (107-98-2)
LD50 6040.0 mg/kg
LC50 12.5 mg/L

1,2,4 trimethylbenzene (95-63-6)
Acute oral toxicity (LD50): 5000 mg/kg [Rat]

CHRONIC EFFECTS:

Component

Limonene-D (5989-27-5)

Carcinogenic Effects NTP: Not listed as a carcinogen by IARC, NTP, or OSHA.

Mutagenic Effects: Not Available.

Teratogenic Effects: Not Available

Developmental Toxicity: This component has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

Target Organs: Exposure to this component has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs specific to the male rat and the kidney effects are not expected to occur in humans. Overexposure to this component has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible, kidney effects.

Eye contact: May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact: May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling, and other skin effects.) Passage of this material into the body through the skin is possible, but it unlikely that this would result in harmful effects during safe handling and use.

Ingestion: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation: Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable.

Aggravated Medical Condition: Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: Skin, lung (for example, asthma-like conditions).

Symptoms: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways).

Ethyl 3-Ethoxypropionate (763-69-9)

Carcinogenic Effects Not available

Mutagenic Effects: Negative

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: High vapor concentrations may cause drowsiness.

1-methoxy-2-propanol (107-98-2)

Carcinogenic Effects Not available

Mutagenic Effects: Negative

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs:

Eye Contact: Causes eye irritation.

Skin Contact: Causes skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

Inhalation: Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). May cause dizziness and drowsiness.

Ingestion: Expected to be a low ingestion hazard.

Chronic Hazards: No Information. Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

2-Propanol, 1-Propoxy- (1569-01-3)

Carcinogenic Effects Not available

Mutagenic Effects: Negative No evidence of genotoxicity in standard bacterial and mammalian test systems in vitro.

Teratogenic Effects: Not Available

Developmental Toxicity: This substance did not cause maternal toxicity, fetal toxicity, or developmental abnormalities in rats receiving whole-body inhalation exposures up to concentrations of 1500 ppm. Although PNP did not cause fetal toxicity or developmental abnormalities in rabbits receiving inhalation exposures of 1500 ppm, there was clear evidence of maternal toxicity.

Reproductive: The reproductive toxicity has not been investigated. Based on the examination of reproductive organs of rats from a 14-week inhalation repeated-exposure study, this substance is not expected to cause reproductive toxicity.

Target Organs: Skin. Eye. Central nervous system. Liver. Kidneys. Severe eye irritant. Skin irritant. Skin absorption hazard. May cause central nervous system depression. **Inhalation** May be irritating to the eyes. This substance is considered nontoxic by the inhalation route. May cause central nervous system depression. **Ingestion** This substance is considered nontoxic by the oral route. High doses may cause CNS depression (fatigue, dizziness and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure). At high doses, causes irritation of the stomach. May damage the kidneys.

Skin contact This substance is considered nontoxic by the dermal route of exposure. Extensive and prolonged contact with skin may cause severe irritation. Skin absorption hazard. If the substance is heated or used in spray or aerosol applications, the potential for toxicity hazard from dermal exposure may be increased. **Irritation Skin** Not irritating to the skin following short-term contact. Extensive and prolonged contact with skin may cause severe irritation.

Eyes Severe eye irritant. Undiluted or vapors of this substance can cause discomfort and pain with moderate to severe conjunctivitis (hyperemia and/or chemosis) and the possibility of corneal injury.

Light Aromatic Solvent Naphtha (64742-95-6)

Carcinogenic Effects: Not listed as a carcinogen

Mutagenic Effects: Not Available.

Teratogenic Effects: Not Available

Developmental Toxicity: Not Available

Target Organs: The substance is toxic to lungs, the nervous system, digestive system, upper respiratory tract skin, eyes. May be irritating to eyes, skin and respiratory system. Aspiration hazard if swallowed. Can enter lungs and cause damage. Chronic overexposure to this material may cause systemic toxicity, including adverse reactions to the following: kidney, liver, spleen, adrenals, lungs, skin, blood, testes, cardiovascular and nervous systems.

Eyes may cause eye irritation.

Skin May cause skin irritation. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally blistering.

Inhalation High vapor/mist concentration exposure can cause respiratory tract irritation, nausea, headaches, dizziness, and other central nervous system effects.

Ingestion May cause irritation of gastrointestinal tract. If swallowed aspiration into lungs may result in chemical pneumonitis and severe pulmonary injury potential

Chronic Health Chronic overexposure to this material may cause systemic toxicity, including adverse reactions Effects to the following: kidney, liver, spleen, adrenals, lungs, skin, blood, testes, cardiovascular and nervous systems.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Limonene-D (CAS#5989-27-5)
96 Hr LC50 Pimephales promelas: 0.619-0.796 mg/L [flow-through];
96 Hr LC50 Oncorhynchus mykiss: 35 mg/L

Ecotoxicity: Ethyl 3-Ethoxypropionate (763-69-9)
96 Hr LC50 Pimephales promelas: 62 mg/L [static]
48 Hr EC50 Daphnia magna: 970 mg/L
NOAEL Rat by gavage 28d 1,000 mg/kg
NOAEL RAT Inhalation study 500 ppm

Ecotoxicity: Aromatic Naphtha (64742-95-6)
LD50 Colinus virginianus: >2250 mg/kg
5 Days LC50 Colinus virginianus: >6500 ppm [Diet]
96 Hr LC50 Oncorhynchus mykiss: 9.22 mg/L
48 Hr EC50 Daphnia magna: 6.14 mg/L

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Section 14: TRANSPORT INFORMATION

Proper Shipping Name: Combustible Liquid, n.o.s.

Hazard Class: Comb. Liq.

Identification No.: NA1993

Packing Group: III

Placard: Combustible (Bulk)

Section 15: REGULATORY INFORMATION

TSCA Inventory: This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

SARA 302/304: The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 313: 1, 2,4-trimethylbenzene

CERCLA: The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. Chemical substances present in this product or refinery stream that may be subject to this statute are: No components were identified.

SARA 311/312 Hazard: The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: Acute, Chronic, Fire

California Proposition 65: This product can expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Cumene CAS #98-82-8

Ethylene oxide CAS #75-21-8

Section 16: OTHER SUPPLEMENTAL INFORMATION

Last Revision Date: 06 May 2015

Preparation Date: 31 August 2018

Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext. 142

Disclaimer:

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.
